


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE NPR 9084	93-08-13	PUSK

SALES DRAWING

REV. STATUS OF SHEETS							P.O. BOX 4422 Santa Barbara, CA 93140-4422
REV.	A	A	A	A	A		
SHEET	1	2	3	4	5		
REV.	A					TITLE GENERAL PURPOSE 250VDC, 10A VACUUM RELAY	
SHEET	6						
PREP. BY	TANNER	93-8-13	DWG. NO. PD10B SERIES				
CHKD. BY	PUSK	93-8-13					
			CAGE CODE 18741		SHEET 1 OF 6		
ENG. APRVL.	K. Adams	93-8-13					

SPECIFICATIONS:

PHYSICAL

CONTACT ARRANGEMENT	SPST-NC
FORM	B

ENVIRONMENTAL

SHOCK, 11 MS 1/2 SINE (g, Peak)	25
VIBRATION, SINUSOIDAL (55-2000 Hz; g PEAK)	5
OPERATING TEMPERATURE (°C)	-35 TO +65
OPERATIONAL ALTITUDE, MAX. (FT.)	15,000

ELECTRICAL

CONTACT RATING	
OPERATING VOLTAGE (Vdc)	250
RATED RESISTIVE LOAD @ 250 VDC (Amps)	10*
LOAD LIFE, MIN. (CYCLES)	10,000
OVERLOAD, SWITCHED (Adc)	20
OVERLOAD CONTACT LIFE, MIN (CYCLES)	50
CONTINUOUS CURRENT CARRY, MAX. (Adc)	10

OTHER DATA

DIELECTRIC STRENGTH AT SEA LEVEL (VRMS)	
COIL TO POWER TERMINALS	1,800
ALL OTHER POINTS	2,000
DIELECTRIC STRENGTH AT 15,000 FT, ALL POINTS	500
OPERATE TIME, MAX., INCLUDING BOUNCE AT NOMINAL VOLTAGE (ms)	10
RELEASE TIME, MAX. (ms)	10
INSULATION RESISTANCE, 500 Vdc, MIN. (MEGOHMS)	
BEFORE LIFE	100
AFTER LIFE	50
CONTACT RESISTANCE, MAX. (OHMS)	.030

COIL DATA

COIL VOLTAGE, NOMINAL (Vdc)	12	24	125
COIL VOLTAGE, MAX. (Vdc)	14	28	130
PICK-UP VOLTAGE, MAX. (Vdc)	8	16	80
DROP-OUT VOLTAGE, (Vdc)	.3-6	.7-12	5-55
COIL RESISTANCE (OHMS ± 10% @ 25°C)	70	290	4700

NOTES: RATINGS LISTED ARE ACROSS THE OPERATING TEMPERATURE RANGE.
*THE LOAD TERMINALS SHOULD ALWAYS BE CONNECTED AS FOLLOWS:
COMMON CONTACT +; OTHER CONTACT -.

DIMENSIONS IN INCHES
(DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

.xx = ± .03

.xxx = ± .010

∠ x° = ± 2°

DO NOT SCALE DWG.



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SCALE

NONE

SHEET

2

PART NUMBER SELECTION

SAMPLE PART NUMBER: PD10B B 5 7

COIL OPTIONS

- 2 = 12 Vdc - PC BOARD (SEE FIGURE 1)
- 3 = 24 Vdc - PC BOARD (SEE FIGURE 1)
- 5 = 125 Vdc - PC BOARD (SEE FIGURE 1)
- A = 12 Vdc - STUD TERMINAL (SEE FIGURE 2)
- B = 24 Vdc - STUD TERMINAL (SEE FIGURE 2)
- C = 125 Vdc - STUD TERMINAL (SEE FIGURE 2)

POWER TERMINAL OPTIONS

- 3 = PC BOARD (SEE FIGURE 1)
- 5 = STUD TERMINAL (SEE FIGURE 2)

MOUNTING OPTIONS

- 5 = PC BOARD MOUNT (SEE FIGURE 1)
- 7 = PANEL MOUNT (SEE FIGURE 2)

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xxx = ± .010

~~±~~ x° = ± 2°

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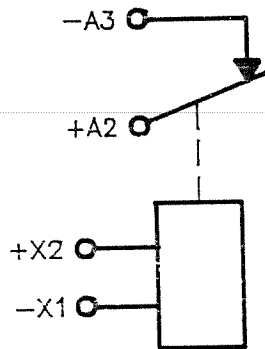
SCALE
NONE

SHEET
3

REV.
A

SCHEMATIC

(FOR FIGURE 2 ONLY)



DIMENSIONS IN INCHES
(DIMENSIONS IN PARENTHESES ARE IN
MILLIMETERS)

TOLERANCES EXCEPT AS NOTED

.xx = \pm .03

.xxx = \pm .010

~~4~~ x° = \pm 2°

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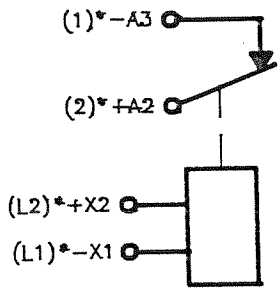
PD10B SERIES

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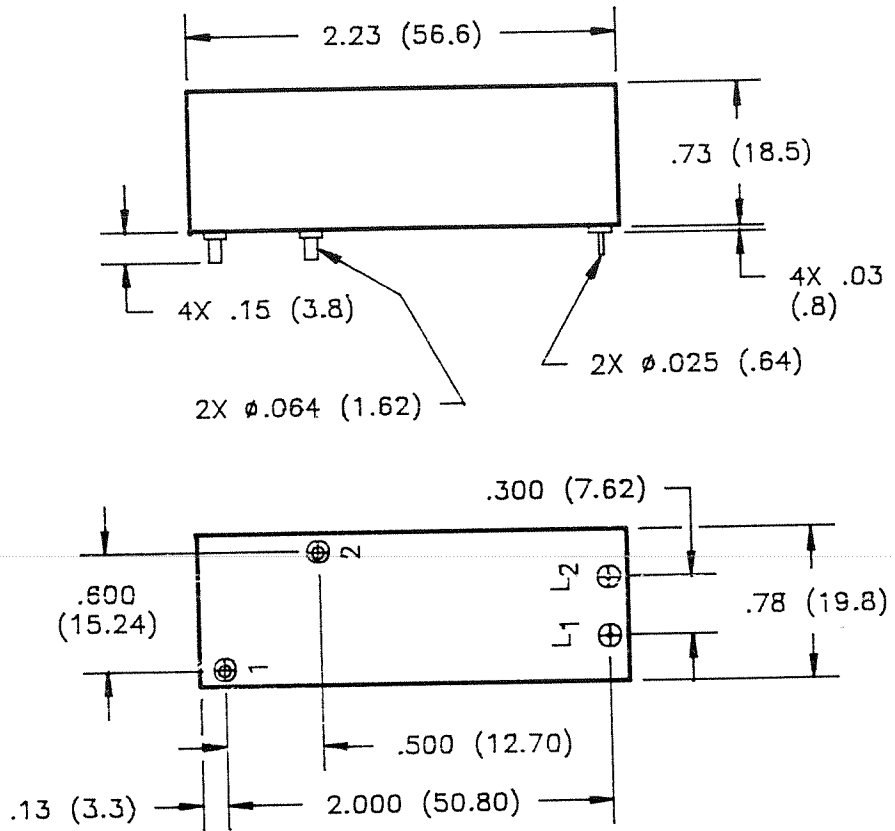
SCALE
NONE

SHEET
4

SCHEMATIC



*HARDWARE MARKING
WILL BE AS SHOWN
IN PARENTHESES.



WEIGHT, MAX (oz): 2.00

AVAILABLE OPTIONS:

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
2 = 12 Vdc - PCB TERMINALS	3 = PCB TERMINALS	5 = PCB MOUNT
3 = 24 Vdc - PCB TERMINALS		
5 = 125 Vdc - PCB TERMINALS		

(PART NUMBER, CONTACT RATINGS, COIL VOLTAGE/RESISTANCE AND SCHEMATIC ARE MARKED ON SIDES OF RELAY.)

FIGURE 1: PC BOARD STYLE MOUNTING WITH PC BOARD TERMINALS

DIMENSIONS IN INCHES
(DIMENSIONS IN PARENTHESES ARE IN
MILLIMETERS)

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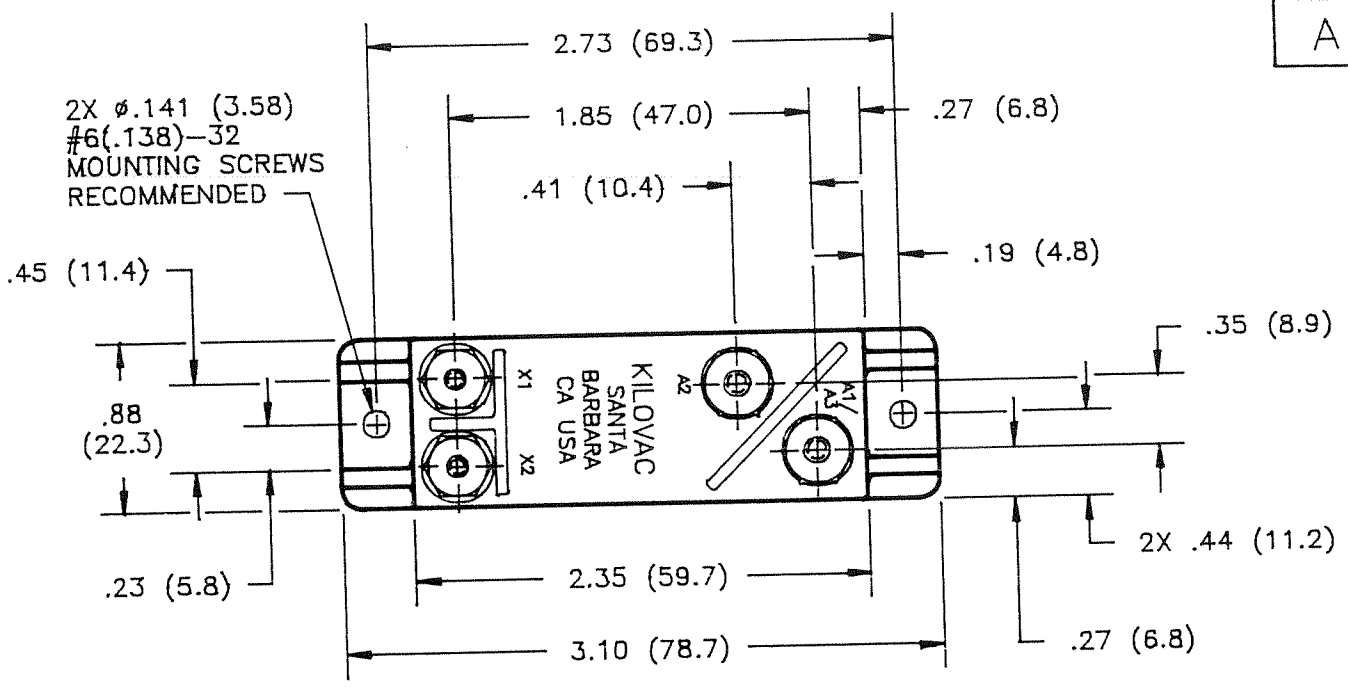
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SCALE
1:1

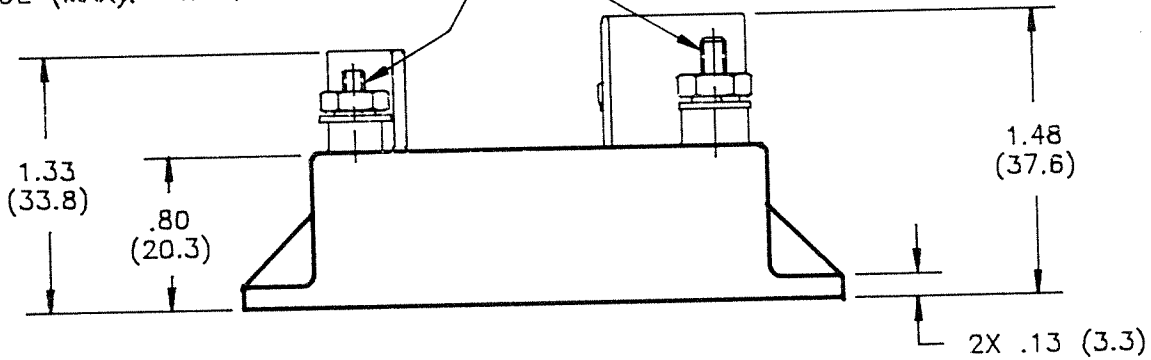
SHEET
5

REV. A



2X #4(.112)-40 UNC-2A (EACH WITH HEX NUT, LOCKWASHER & FLAT WASHER)
TORQUE (MAX): 4.4 LB-IN

2X #6(.138)-32 UNC-2A (EACH WITH HEX NUT, LOCKWASHER & FLAT WASHER)
TORQUE (MAX): 10 LB-IN



WEIGHT, MAX (oz): 2.00

AVAILABLE OPTIONS:

COIL OPTIONS	POWER TERMINAL OPTIONS	MOUNTING OPTIONS
A = 12 Vdc - STUD TERMINALS	5 = STUD TERMINALS	7 = PANEL MOUNT
B = 24 Vdc - STUD TERMINALS		
C = 125 Vdc - STUD TERMINALS		

(PART NUMBER, CONTACT RATINGS, COIL VOLTAGE/RESISTANCE AND SCHEMATIC ARE MARKED ON SIDES OF RELAY.)

FIGURE 2: PANEL STYLE MOUNTING WITH STUD TERMINALS

DIMENSIONS IN INCHES
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CAGE CODE	SCALE	SHEET
18741	1:1	6